AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1.-20. (Cancelled)
- 1 21. (Previously Presented) A data storage system comprising:
- 2 a data storage system housing having an opening, and first and second elongate reference
- 3 rails located adjacent the opening;
- 4 a media storage device for storing a plurality of data media, the media storage device
- 5 comprising a media storage device housing configured to receive the plurality of data media, the
- 6 housing having a top, a bottom and opposing ends, the media storage device housing having first
- 7 and second elongate alignment grooves, each of which is adapted to slidably engage with a
- 8 respective one of the first and second elongate reference rails such that the media storage device
- 9 may be inserted into and removed from the data storage system housing by slidably engaging the
- 10 elongate reference rails and the elongate alignment grooves and guiding the media storage device
- through the opening of the data storage system housing along a longitudinal axis of the media
- 12 storage device housing, the opposing ends of the media storage device housing being located
- along the longitudinal axis, the data media being inserted into and removed from the media
- storage device housing along an axis transverse to the longitudinal axis;
- a data exchange device for reading data from the data media; and
- a media handling system for transferring data media from the media storage device to the
- 17 data exchange device.
- 1 22. (Previously Presented) The data storage system of claim 21, wherein the media storage
- 2 device further comprises a locking plate attached to the media storage device housing and
- 3 configured to engage a locking mechanism located in the opening in the data storage system
- 4 housing.
- 1 23. (Cancelled).

- 1 24. (Previously Presented) The data storage system of claim 21, wherein the housing of the
- 2 media storage device is molded from plastic.
- 1 25. (Previously Presented) The data storage system of claim 21, wherein the media storage
- 2 device housing further comprises a handle configured to enable an operator to apply a force
- 3 substantially parallel to the first elongate alignment groove such that when the first elongate
- 4 alignment groove engages the first elongate reference rail the media storage device may be
- 5 inserted and removed from the data storage system housing.
- 1 26. (Previously Presented) The data storage system of claim 21, wherein the media storage
- 2 device housing has opposing sides located between the top and the bottom and extending parallel
- 3 to the longitudinal axis, at least one of the opposing sides being configured to receive the data
- 4 media.
- 1 27. (Previously Presented) The data storage system of claim 21, further comprising:
- a spring mechanism comprising a first end and a second end, the first end being
- 3 operationally attached to the top of the media storage device housing; and
- a finger attached to the second end of the spring mechanism;
- 5 wherein the spring mechanism and the finger are configured to engage the data media.
- 1 28. (Previously Presented) The data storage system of claim 26, wherein the media storage
- 2 device housing comprises a plurality of slots defined by a plurality of dividers positioned in
- 3 spaced-apart relation within the media storage device housing.
- 1 29. (Previously Presented) The data storage system of claim 27, wherein the spring
- 2 mechanism comprises a metallic strip.
- 1 30. 34. (Cancelled)

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- 1 35. (Previously Presented) The data storage system of claim 21, further comprising means
- 2 for applying a force substantially parallel to the first elongate alignment groove.
- 1 36. (Previously Presented) A data storage system comprising:
- 2 a data storage system housing having an opening, and reference rails located adjacent the
- 3 opening; and
- 4 a media storage device for storing a plurality of data media, the media storage device
- 5 comprising a media storage device housing configured to receive the plurality of data media, the
- 6 housing having opposing ends, the media storage device housing having alignment grooves, each
- of which is adapted to slidably engage with a respective one of the reference rails such that the
- 8 media storage device may be inserted into and removed from the data storage system housing by
- 9 slidably engaging the reference rails and the alignment grooves and guiding the media storage
- device through the opening of the data storage system housing along a longitudinal axis of the
- media storage device housing, the opposing ends of the media storage device housing being
- located along the longitudinal axis, the data media being inserted into and removed from the
- media storage device housing along an axis transverse to the longitudinal axis.
- 1 37. (Previously Presented) The data storage system of claim 36, wherein the media storage
- 2 device further comprises a locking plate attached to the media storage device housing and
- 3 configured to engage a locking mechanism located in the opening in the data storage system
- 4 housing.
- 1 38. (Previously Presented) The data storage system of claim 36, wherein the housing of the
- 2 media storage device is molded from plastic.
- 1 39. (Previously Presented) The data storage system of claim 36, wherein the media storage
- 2 device housing has opposing sides located between the top and the bottom and extending parallel
- 3 to the longitudinal axis, at least one of the opposing sides being configured to receive the data
- 4 media.

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- 1 40. (Previously Presented) The data storage system of claim 36, further comprising:
- a spring mechanism comprising a first end and a second end, the first end being
- 3 operationally attached to the top of the media storage device housing; and
- a finger attached to the second end of the spring mechanism;
- 5 wherein the spring mechanism and the finger are configured to engage the data media.
- 1 41. (Previously Presented) The data storage system of claim 36, wherein the media storage
- device housing comprises a plurality of slots defined by a plurality of dividers positioned in
- 3 spaced-apart relation within the media storage device housing.
- 1 42. (Previously Presented) The data storage system of claim 40, wherein the spring
- 2 mechanism comprises a metallic strip.
- 1 43. (New) The data storage system of claim 36, further comprising a drawer to receive the
- 2 media storage device, the drawer being moveable between a retracted position and an extended
- 3 position; and
- 4 guide rails to enable movement of the drawer between the retracted and extended
- 5 positions, the guide rails being separate from the reference rails.
- 1 44. (New) The data storage system of claim 43, wherein the guide rails comprise a first
- 2 guide rail attached to the drawer, a second guide rail attached to the data storage system housing,
- and a third guide rail slidably engaged to the first and second guide rails.
- 1 45. (New) The data storage system of claim 43, wherein engagement of the reference rails
- 2 and respective alignment grooves lifts the media storage device from the drawer.
- 1 46. (New) The data storage system of claim 45, wherein engagement of the reference rails
- 2 and respective alignment grooves when the drawer is in the retracted position determines a
- 3 position of the media storage device in the data storage system housing instead of the drawer
- 4 determining the position of the media storage device.

- 1 47. (New) The data storage system of claim 36, further comprising;
- 2 a moveable drawer to receive the media storage device; and
- an automated drive system adapted to, in response to user input, move the drawer
- 4 between a retracted position to an extended position.
- 1 48. (New) The data storage system of claim 47, wherein the drive system has a motor to
- 2 cause movement of the drawer.
- 1 49. (New) The data storage system of claim 48, wherein the drive system has a drive gear
- 2 driven by the motor to cause movement of the drawer.
- 1 50. (New) The data storage system of claim 36, further comprising a moveable drawer to
- 2 receive the media storage device, the drawer moveable between a retracted position inside the
- data storage system housing and an extended position wherein the drawer protrudes from the
- 4 data storage system housing,
- 5 the drawer further comprising supplemental slots to store spare data media, the
- 6 supplemental slots separate from the media storage device.
- 1 51. (New) The data storage system of claim 50, further comprising at least another media
- 2 storage device for storing a plurality of data media,
- 3 wherein the drawer has trays to receive respective media storage devices,
- 4 the supplemental slots being separate from the media storage devices.
- 1 52. (New) The data storage system of claim 43, wherein the drawer and media storage
- 2 device are an integrated unit.
- 1 53. (New) The data storage system of claim 36, further comprising:
- 2 at least another media storage device for storing a plurality of data media,
- 3 the media storage devices stacked in a vertical stack arrangement; and

- a plurality of moveable drawers to receive respective media storage devices, each drawer moveable between a retracted position inside the data storage system housing and an extended position wherein the drawer protrudes from the data storage system housing.
- 1 54. (New) The data storage system of claim 36, further comprising:
- at least another media storage device for storing a plurality of data media,
- 3 the media storage devices stacked in a vertical stack arrangement; and
- a bulk access apparatus to provide single access to the plurality of media storage devices arranged in the vertical stack arrangement.
- 1 55. (New) The data storage system of claim 36, further comprising:
- 2 a media exchange device for moving the media storage device;
- a first guide structure attached to the media exchange device;
- 4 a second guide structure attached to the data storage system housing, the second guide
- 5 structure to interact with the first guide structure to move the media exchange device,
- 6 wherein the reference rails and alignment grooves are separate from the guide structures.
- 1 56. (New) The data storage system of claim 55, wherein the media exchange device is
- 2 integrated with the media storage device.
- 1 57. (New) The data storage system of claim 36, wherein the media storage device is for
- 2 storing a plurality of machine-readable devices, each machine-readable device for storing data.
- 1 58. (New) The data storage system of claim 36, wherein the media storage device has a
- 2 plurality of slots to receive respective data media.

- 1 59. (New) The data storage system of claim 36, further comprising a second media storage
- 2 device for storing a plurality of data media, the second media storage device having alignment
- 3 grooves,
- 4 wherein the alignment grooves of the second media storage device are engageable by the
- 5 same reference rails.
- 1 60. (New) A data storage system comprising:
- 2 a data storage system housing having an opening and reference structures;
- a media storage device for storing a plurality of data media devices, the media storage
- 4 device having a housing with alignment structures to slidably engage the respective reference
- 5 structures to enable slidable movement of the media storage device through the opening of the
- 6 data storage system housing; and
- a moveable media exchange device to receive the media storage device, the media
- 8 exchange device moveable between a retracted position and an extended position, wherein the
- 9 media storage device is positioned inside the data storage system housing when the media
- 10 exchange device is in the retracted position, and wherein the media storage device protrudes
- from the data storage system housing when the media exchange device is in the extended
- 12 position; and
- guide structures to moveably guide the media exchange device between the retracted and
- 14 extended positions.
- 1 61. (New) The data storage system of claim 60, wherein the guide structures are separate
- 2 from the reference structures and alignment structures.
- 1 62. (New) The data storage system of claim 61, wherein the media storage device has a
- 2 plurality of slots to receive respective data media devices.